

10/541,531

11/10/2008

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10/541, 531

11/10/2008

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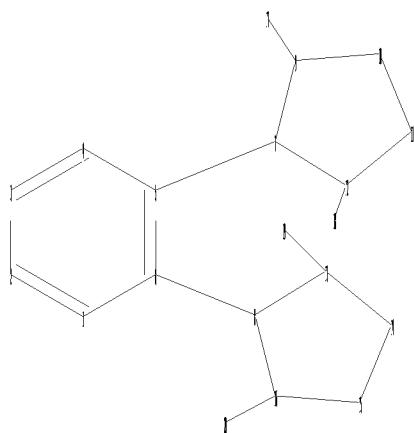
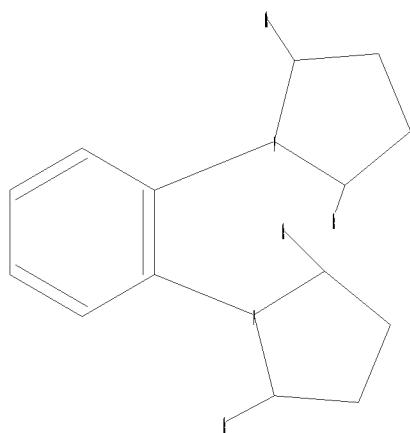
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chain nodes :

17 18 19 20

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

chain bonds :

5-7 6-8 9-17 12-18 13-19 16-20

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-9 7-12 8-13 8-16 9-10 10-11 11-12 13-14
14-15 15-16

exact/norm bonds :

9-17 12-18 13-19 16-20

exact bonds :

5-7 6-8 7-9 7-12 8-13 8-16 9-10 10-11 11-12 13-14 14-15 15-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 : 7 : 8 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS
20:CLASS

L1 STRUCTURE UPLOADED

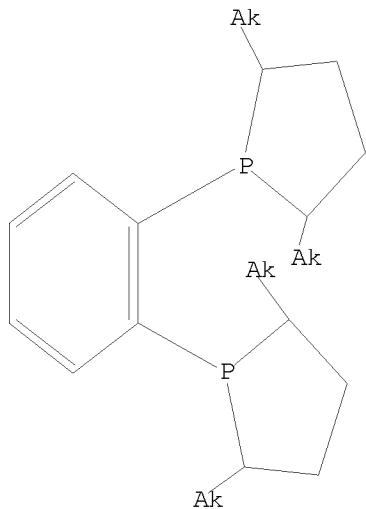
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L1 HAS NO ANSWERS

L1 STR

10/541,531

11/10/2008



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 10:15:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 27 TO ITERATE

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SEARCH TIME: 00.00.01

4 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
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L2 4 SEA SSS SAM L1

=> s 11 full
FULL SEARCH INITIATED 10:15:17 FILE 'REGISTRY'
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100.0% PROCESSED 715 ITERATIONS
SEARCH TIME: 00.00.01

55 ANSWERS

L3 55 SEA SSS FUL L1

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FILE COVERS 1907 - 10 Nov 2008 VOL 149 ISS 20
FILE LAST UPDATED: 9 Nov 2008 (20081109/ED)

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=> s 13 and catalyst
309 L3
820579 CATALYST
816968 CATALYSTS
1051230 CATALYST
(CATALYST OR CATALYSTS)
L4 270 L3 AND CATALYST

=> s 14 and chiral
127690 CHIRAL
19 CHIRALS
127695 CHIRAL
(CHIRAL OR CHIRALS)
L5 182 L4 AND CHIRAL

=> s 15 and zeolite
109468 ZEOLITE
105615 ZEOLITES
132884 ZEOLITE
(ZEOLITE OR ZEOLITES)
L6 6 L5 AND ZEOLITE

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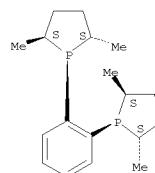
10/541,531

11/10/2008

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:188338 CAPLUS
 DOCUMENT NUMBER: 146:441894
 TITLE: Enantioselective hydrogenation over immobilized rhodium diphosphine complexes on mesostructured materials
 AUTHOR(S): Crosmann, Adrian; Hoelderich, Wolfgang F.
 CORPORATE SOURCE: Department of Chemical Technology and Heterogeneous Catalysis, University of RWTH-Aachen, Aachen, 52074, Germany
 SOURCE: Catalysis Today (2007), 121(1-2), 130-139
 CODEN: CATTEA; ISSN: 0920-5861
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 146:441894
 AB New heterogeneous chiral catalysts were prepared from Rh diphosphine complexes [Rh(P-P)COD]Cl ((P-P) = diphosphine ligand and COD = cyclooctadiene), and Al-MCM-41, Al-MCM-48, and Al-SBA-15, resp. Impregnation of the mesoporous Al-MCM-41, Al-MCM-48, and Al-SBA-15 with the organometallic complexes in CH₂Cl₂ led to strongly bonded hydrogenation catalysts. The catalysts were characterized with XRD, FTIR and MAS NMR, as well as thermoprogrammed desorption of NH₃, TGA, and N sorption expts. The hydrogenation of di-Me itaconate, Me α -acetamidoacrylate, and Me α -acetamidocinnamate were studied as test reactions. The immobilized catalysts showed high activities and excellent chemo- and enantioselectivities. Up to 98% e.e., >99% conversion and 99% selectivity were observed in the case of studied prochiral olefins. The catalysts could be reused without a loss of catalytic activity. Leaching of the homogeneous complex out of the mesoporous framework was not observed
 IT 136735-95-0
 RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
 (reactions of rhodium diphosphine complexes with mesostructured materials to give immobilized rhodium diphosphine complexes as enantioselective hydrogenation catalysts)
 RN 136735-95-0 CAPLUS
 CN Phospholane, 1,1'-(1,2-phenylene)bis[2,5-dimethyl-, (2S,2'S,5S,5'S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

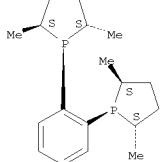
L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 ACCESSION NUMBER: 2005:418447 CAPLUS
 DOCUMENT NUMBER: 144:152156
 TITLE: Enantioselective hydrogenation over immobilized transition metal complex catalysts
 AUTHOR(S): Crosmann, A.; Hoelderich, W. F.
 CORPORATE SOURCE: Department of Chemical Technology and Heterogeneous Catalysis, RWTH Aachen University, Aachen, 52074, Germany
 SOURCE: Studied in Surface Science and Catalysis (2004), 154G (Recent Advances in the Science and Technology of Zeolites and Related Materials), 2839-2846
 CODEN: SSCTIM; ISSN: 0167-2991
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A series of heterogeneous chiral catalysts was prepared from rhodium diphosphine complexes [Rh(L-L)COD]Cl ((L-L) = diphosphine ligand and COD = cyclooctadiene), Al-MCM-41 and Al-MCM-48, resp. Impregnation of the mesoporous Al-MCM-41 and Al-MCM-48 with the organometallic complexes in dichloromethane led to strongly bonded hydrogenation catalysts. The catalysts were characterized with XRD, FT-IR and MAS-NMR, as well as thermoprogrammed desorption of ammonia, thermogravimetric anal., and nitrogen sorption expts. The hydrogenation of di-Me itaconate (I), Me α -acetamidoacrylate (II), and Me α -acetamidocinnamate (III) were studied as test reactions. The immobilized catalysts showed high activities and excellent chemo- and enantioselectivities. Up to 99% e.e., >99% conversion and 99% selectivity were observed in the case of studied prochiral olefins. The catalysts could be reused without a loss of catalytic activity. Leaching of the homogeneous complex out of the mesoporous framework was not observed
 IT 136735-95-0P, (S,S)-Methyl-DuPHOS
 RL: CAT (Catalyst use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (immobilized in aluminum-zeolites; preparation and characterization of immobilized rhodium complex-zeolite catalysts for enantioselective hydrogenation)
 RN 136735-95-0 CAPLUS
 CN Phospholane, 1,1'-(1,2-phenylene)bis[2,5-dimethyl-, (2S,2'S,5S,5'S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

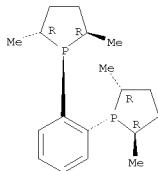


L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:314635 CAPLUS
 DOCUMENT NUMBER: 143:43953
 TITLE: Asymmetric hydrogenation using chiral Rh complexes immobilized with a new ion-exchange strategy
 AUTHOR(S): Hems, William P.; McMorn, Paul; Riddel, Stewart; Watson, Simon; Hancock, Frederick E.; Hutchings, Graham J.
 CORPORATE SOURCE: Johnson Matthey PCT, Cambridge, CB4 0PF, UK
 SOURCE: Organic & Biomolecular Chemistry (2005), 3(8), 1547-1550
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 143:43953
 AB Rh diphosphine complexes using DuPhos and JosiPhos as chiral ligands were immobilized by ion exchange into the mesoporous material MCM-41. When used as catalysts for the enantioselective hydrogenation of di-Me itaconate and Me-2-acetamidoacrylate, these heterogeneous catalysts give catalytic performance in terms of yield and enantioselection that are comparable to the corresponding homogeneous catalysts. Also, the heterogeneous catalysts can be readily recovered and reused without loss of catalyst performance. A 2nd immobilization strategy is described in which [Rh(COD)2]+BF4- is initially immobilized by ion exchange and subsequently modified by the chiral diphosphine and this give comparable catalyst performance. This immobilization strategy opens up the possibility of easy ligand-screening for parallel synthesis and libraries.

IT 147253-67-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of chiral diphosphine ligands with immobilized rhodium hydrogenation catalyst for the asym. heterogeneous hydrogenation of di-Me itaconate or acetamidoacrylate)

RN 147253-67-6 CAPLUS
 CN Phospholane, 1,1'-(1,2-phenylene)bis[2,5-dimethyl-, (2R,2'R,5R,5'R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:353345 CAPLUS
 DOCUMENT NUMBER: 136:371455
 TITLE: Asymmetric hydrogenation catalysts
 INVENTOR(S): Hems, William Patrick; Hutchings, Graham John
 PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
 SOURCE: PCT Int. Appl., 15 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002036261	A2	20020510	WO 2001-GB4842	20011101
WO 2002036261	A3	20021031		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KE, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, NZ, PH, PL, PT, RO, RU				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002012470	A	20020515	AU 2002-12470	20011101
EP 1390142	A2	20040225	EP 2001-980677	20011101
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 20040220049	A1	20041104	US 2003-416053	20030922
PRIORITY APFLN. INFO.:		GB 2000-26890		A 20001103
		WO 2001-GB4842		W 20011101

OTHER SOURCE(S): MARPAT 136:371455
 AB A solid catalyst for asym. hydrogenation reactions is disclosed comprising a chiral cationic metal-ligand complex immobilized on a mesoporous aluminosilicate support. The catalyst is formed by ion exchange with the acid sites of the support. The catalyst is reusable, and maintains its activity after use.

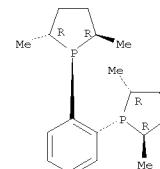
IT 147253-67-6, (R,R)-Methyl-DuPhos
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ligand; asym. hydrogenation catalysts)

RN 147253-67-6 CAPLUS
 CN Phospholane, 1,1'-(1,2-phenylene)bis[2,5-dimethyl-, (2R,2'R,5R,5'R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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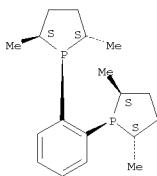
11/10/2008

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:327784 CAPLUS
 DOCUMENT NUMBER: 136:39063
 TITLE: Immobilization of chiral homogeneous catalysts and their use for oxidation and hydrogenation reactions
 AUTHOR(S): Holderich, Wolfgang F.; Wagner, Hans H.
 CORPORATE SOURCE: Department of Chemical Technology and Heterogeneous Catalysis, University of Technology RWTH-Aachen, Aachen, 52074, Germany
 SOURCE: NATO Science Series, II: Mathematics, Physics and Chemistry (2001), 13(Catalysis by Unique Metal Ion Structures in Solid Matrices), 279-293
 CODEN: NSSICD
 PUBLISHER: Kluwer Academic Publishers
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Catalytical processes in the production of fine and intermediate chems. have found great interest in industry which is well aware of com. as well as environmentally sustainable aspects. Generally applicable methods for the transformation of major homogeneous catalysts to give recyclable heterogeneous catalysts will be presented in some examples. The immobilization will be demonstrated in the following two cases: - Homogeneous transition metal complexes on special zeolites containing mesopores completely surrounded by micropores. - Homogeneous transition metal complexes on mesoporous MCM-41 type material. The catalysts obtained thereby are tested in different stereoselective reactions such as oxidation and hydrogenation.

IT 136735-95-0
 RL: CAT (Catalyst use); USES (Uses)
 (immobilization of chiral homogeneous catalysts and use for oxidation and hydrogenation reactions)

RN 136735-95-0 CAPLUS
 CN Phospholane, 1,1'-(1,2-phenylene)bis[2,5-dimethyl-, (2S,2'S,5S,5'S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:795730 CAPLUS
 DOCUMENT NUMBER: 132:37254
 TITLE: Polyoxoanions as anchoring agents for metal complex catalysts on supports, and preparation thereof for hydrogenation
 INVENTOR(S): Tanielyan, Setrak K.; Augustine, Robert L.
 PATENT ASSIGNEE(S): Seton Hall University, USA
 SOURCE: PCT Int. Appl., 44 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964154	A1	19991216	WO 1999-US11998	19990602
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
GW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6136746	A	20001024	US 1998-95998	19980611
AU 9942225	A	19991230	AU 1999-42225	19990602
PRIORITY APFLN. INFO.:			US 1998-95998	A 19980611
		WO 1999-US11998		W 19990602

OTHER SOURCE(S): MARPAT 132:37254
 AB A highly stable supported catalyst comprising a support, an anchoring agent such as an isopolyoxometal anion (single metal polyoxide) or oxo metal salt thereof, and a metal complex exhibits high reactivity and selectivity in a wide variety of organic reactions, especially the hydrogenation of substituted α,β -unsatd. acids and esters. Thus, 1 g activated, neutral γ -alumina oxide and 66.6 micromol ammonium molybdate [(NH₄)₆Mo₇O₂₄.4H₂O] dissolved in 7 mL 10:1 EtOH-H₂O was heated to 70° for approx. 6 h until the solvent evaporated, giving a modified support, which (300 mg) was agitated overnight with 2 mL MeOH and 1 mL methanolic solution of Rh(DIPAMP)(COD)BF₄, giving a catalyst containing 44.4% adsorbed Rh complex. The above catalyst (330 mg) was used in the chiral hydrogenation of Me 2-acetamidoacrylate, showing product enantiomeric excess 95.4% and conversion rate 1.6 × 10⁻³ mol H₂/mol Rh/min.

IT 147253-67-6
 RL: CAT (Catalyst use); USES (Uses)
 (ligand; polyoxoanions as anchoring agents for metal complex catalysts on supports and preparation thereof for hydrogenation)

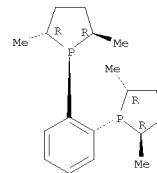
RN 147253-67-6 CAPLUS
 CN Phospholane, 1,1'-(1,2-phenylene)bis[2,5-dimethyl-, (2R,2'R,5R,5'R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

Saeed

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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10/541,531

11/10/2008

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ENTRY

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